WHAT IS CLAIMED IS:

- 1. A semiconductor device comprising:
- a plurality of laminated semiconductor elements; and highly water-absorbing resin films formed between the semiconductor elements.
- 2. The semiconductor device according to claim 1, wherein the highly water-absorbing resin films absorb water or a low-boiling-point organic solvent.
 - 3. The semiconductor device according to claim 1, wherein the highly water-absorbing resin films absorb an organic solvent having a boiling point equal to or higher than the reflow melting point temperature of solder.
 - 4. The semiconductor device according to claim 1, further comprising heat-dissipating heat sinks installed on the sides of the plurality of laminated semiconductor elements.

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- 5. A semiconductor device comprising:
- a plurality of laminated semiconductor elements; and conductive resin films formed on the whole areas between the semiconductor elements.

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- 6. A semiconductor device comprising:
- a plurality of laminated semiconductor elements;
 metal plates provided between the semiconductor elements; and
 inner bumps for electrically connecting adjacent semiconductor

 30 elements with each other;

wherein each of the metal plates have openings, whose circumferences have been subjected to insulation treatment, in locations where the inner bumps pass.

5 7. The semiconductor device according to claim 6, further comprising highly water-absorbing resin films formed between the semiconductor elements.